Queensland Government

Department of
Environment and Heritage Protection

08-OCT-2015

To: Department of Education, Training and Employment
PO Box 15033
CITY EAST QLD 4002

Email: paul.price@dete.qld.gov.au

Your reference: EPPR00752713
Our reference: 310629

Application details

I refer to the application that was received by the administering authority on 08-SEP-2015.

Address: Corner Rowley Road and Kurrajong Drive, Burpengary QLD

Land Description: Lot 247 Plan RP809017; Lot 248 Plan RP809017; Lot 249 Plan RP809017; Lot 250 Plan RP802933 and Lot 5 Plan RP800227

Decision

Your application has been approved and your environmental authority (reference EPPR00752713) is attached.

Additional comments or advice

You are advised that if you are not the owner of the land to which the environmental authority relates, you have 10 business days from receipt of this environmental authority to give each owner of the land, written notice that you have been issued this environmental authority.

Should you have any further enquiries, please contact Denise Leon on telephone 07 3330 6097.

Yours sincerely

Signature	Date
Chrooney	23/10/15

Chris Mooney
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Denise Leon
ES – Heritage Utilities and Government Organisations Assessment
PO Box 2454
BRISBANE QLD 4001
Phone: 07 3330 6097
Email: denise.leon@ehp.qld.gov.au
Website **www.ehp.qld.gov.au**
ABN 46 640 294 485

Enclosed

Permit - environmental authority (reference EPPR00752713)

Permit[1]

Environmental Protection Act 1994

Environmental authority

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Permit[1] number: EPPR00752713

Environmental authority takes effect upon approval.

The anniversary date of this environmental authority is 3 October.

Environmental authority holder

Name	Registered address
Department of Education, Training and Employment	Asset Maintenance Unit Floor 15 Education House 30 Mary Street BRISBANE CITY QLD 4000

Environmentally relevant activity and location details

Environmentally relevant activity	Location(s)
63-(1b)(i) Sewage treatment >100 to 1500EP - IT or IR	Corner Rowley Road and Kurrajong Drive and Burpengary Lot 247 Plan RP809017 Lot 248 Plan RP809017 Lot 249 Plan RP809017 Lot 250 Plan RP802933 Lot 5 Plan RP800227

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority is issued is a restatement of the ERA as defined by legislation at the time the approval is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an environmental authority as to the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

An environmental authority authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the authority specifically authorises environmental harm.

[1] Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.

Signature	Date
CMooney	23/10/15

Chris Mooney
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Denise Leon
ES – Heritage Utilities and Governmnet
Organisations Assessment
PO Box 2454
BRISBANE QLD 4001
Phone: 07 3330 6097
Email: denise.leon@ehp.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Conditions of environmental authority

The ERAs conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G1	The **activity** conducted under this environmental authority must not be conducted contrary to any of the following limitations: 1. operating sewage treatment plant with a peak design capacity of 160 equivalent persons (EP) to treat 32 kilolitres of sewage generated per day, under average dry weather flow conditions 2. within the **boundaries** defined on Schedule 1 "Appendix A Layout of School Infrastructure and Treatment/Disposal System" dated 10 November 2007, prepared by GHD Pty Ltd.
G2	All reasonable and practicable measures must be taken to prevent the likelihood of environmental harm being caused.
G3	The **activity** must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency 2. establish and maintain control measures that minimise the potential for environmental harm 3. ensure plant, equipment and measures are maintained in a proper and effective condition 4. ensure plant, equipment and measures are operated in a proper and effective manner 5. ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994* 6. ensure that reviews of environmental performance are undertaken at least annually.

G4	All information and records required by the conditions of this environmental authority must be kept for a minimum of five years with the exception of environmental monitoring results which must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the administering authority upon request and in the format requested.
G5	Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicable, or at most, within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
G6	An appropriately qualified person(s) must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
G7	All analyses required under this environmental authority must be carried out by a laboratory that has **NATA** certification, or an equivalent certification, for such analyses. The only exception to this condition is for *in situ* monitoring of the daily flow measurements and dissolved oxygen.
G8	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
G9	An annual monitoring report must be prepared and submitted to the administering authority by 30 November each year, for the preceding financial year.
G10	You must record the following details for all environmental complaints received: a) date and time complaint was received b) name and contact details of the complainant c) nature of the complaint d) investigations undertaken e) conclusions formed f) actions taken.
Agency interest: Land	
Condition number	**Condition**
L1	Treatment and management of acid sulfate soils must comply with the latest edition of the Queensland Acid Sulfate Soil Technical Manual.
L2	Contaminants permitted to be released to land are treated sewage wastes: (a) to the subsurface land irrigation area defined in Schedule 1 "Appendix A Layout of School Infrastructure and Treatment/Disposal System" dated 10 November 2007, prepared by GHD Pty Ltd; and/or (b) supplied under a third party agreement for beneficial reuse; and/or (c) to the on-site recycled water storage tanks; and in accordance with the release limits and monitoring frequency at the monitoring locations

described as W1 and W2 stated in "Table 1 – Contaminants Release Limits to land".

Table 1 – Contaminants Release Limits to land

Monitoring Point	Quality Characteristics	Units	Minimum	Median	Maximum	Monitoring Frequency
W1	Flow Measurement	L/min	-	-	-	Daily when irrigating or STP release
W1	Recycled water Volume	kl/day	-	-	20	Daily when irrigating or STP release
W1	Dissolved Oxygen	mg/L	2	-	-	Monthly when irrigating or STP release
W1	pH	pH units	6	-	8.5	Monthly prior to irrigation or STP release
W1	Electrical Conductivity	µS/cm	-	-	1600	Monthly prior to irrigation or STP release
W1	5-day BOD (inhibited)	mg/l	-	-	10	Monthly prior to irrigation or STP release
W1	Free Chlorine Residual	mg/l	-	-	10	Monthly prior to irrigation Daily for STP release
W1	E.Coli[2]	cfu/ 100mL	-	Less than 10	-	Monthly prior to Irrigation or STP release
W1	Suspended Solids	mg/l	-	-	10	Monthly prior to irrigation or STP release
W1	Total Nitrogen	grams/ day	-	-	320	Monthly prior to irrigation or STP release
W1	Total Phosphorus	grams/ day	-	-	256	Monthly prior to irrigation or STP release

	Monitoring Point W1 – outlet of recycled water storage tank, prior to irrigation Monitoring Point W2 – outlet from sewage treatment plant, prior to release to the recycled water storage tank. Note[2] means median of five consecutive samples taken at not less than ½ hourly intervals.
L3	Treated effluent released to land must be done in accordance with documentation that ensures: (a) drainage to groundwater and subsurface flows of contaminants to surface waters are prevented (b) surface pondage and run-off of effluent is prevented (c) degradation of soil structure is minimised (d) soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised (e) spray drift or overspray does not carry beyond effluent disposal areas (f) effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake (g) sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.
L4	When weather conditions or soil conditions preclude the release of treated sewage effluent to land, effluent must not be irrigated to land.
L5	Chemicals and fuels in containers of greater than 15 litres must be stored within a **secondary containment system**.
L6	Land used for the irrigation of treated sewage wastes, described in condition L2, must have a minimum surface area of 5 650 square metres.
L7	A minimum storage capacity of 46 kilolitres must be available for the storage of treated sewage wastes.
L8	The Soil Monitoring Program must be conducted in accordance with Table 2 – Soil Monitoring Program for Land Irrigation Area.

Table 2 – Soil Monitoring Program

Monitoring point	Quality Characteristics	Units	Frequency
S1, S2, S3	pH	Units	Biennially
S1, S2, S3	Electrical Conductivity	µS/cm (5:1)	Biennially
S1, S2, S3	Effective cation exchange capacity		Biennially
S1, S2, S3	Sodium Absorption Ratio	Ratio	Biennially
S1, S2, S3	Total Organic C	Mg/kg	Biennially
S1, S2, S3	Chloride	Mg/kg	Biennially
S1, S2, S3	Extractable P (Colwell method)	Mg/kg	Biennially
S1, S2, S3	Total dissolved ions	Mg/kg	Biennially

	S1, S2, S3	Total Nitrogen	Mg/kg	Biennially
	S1, S2, S3	Nitrite	Mg/kg	Biennially
	S1, S2, S3	Calcium	Mg/kg	Biennially
	S1, S2, S3	Magnesium	Mg/kg	Biennially
	S1, S2, S3	Sodium	Mg/kg	Biennially
	S1, S2, S3	Potassium	Mg/kg	Biennially

S1 – A Soil Monitoring point 1, located north-east within the irrigation area, defined in Schedule 1.

S2 – A Soil Monitoring point 2, located south – west within the irrigation area, defined in Schedule 1.

S3 – Control background soil monitoring point 3, located upgradient of the irrigation area, in a location which is not affected by the subsurface irrigation.

L9	A biennial report in response to the Soil Monitoring Program must interpret soil testing results and provide advice on sustainable loadings and soil management, depending on effluent quality and the type of soils and vegetation being irrigated and implement such measures as to ensure sustainable loadings and soil management should the report indicate non-sustainable land disposal.
L10	Treated sewage effluent may be removed from the site and used for an alternate purpose, with the written consent of any third party involved.

Agency interest: Noise

Condition number	**Condition**
N1	Noise generated by the activity must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.
N2	All noise from the ERA must not exceed the levels specified in "Table 3 - Noise Limits" at any nuisance **sensitive** or **commercial place**.

Table 3 – Noise Limits

Sound Pressure Level dB(A)	Monday to Saturday			Sunday and Public Holidays		
	7am–6pm	6pm–10pm	10pm–7am	9am–6pm	6pm–10pm	10pm–9am
	Noise measured at a 'Noise sensitive place'					
LA,max adj, T	**Background + 5 dB(A)**	**Background + 5 dB(A)**	**Background + 3 dB(A)**	**Background + 3 dB(A)**	**No audible noise**	**No audible noise**
	Noise measured at a 'Commercial place'					
LA, max adj, T	**Background + 10 dB(A)**	**Background + 10 dB(A)**	**Background + 5 dB(A)**	**Background + 5 dB(A)**	**Background + 3 dB(A)**	**Background + 3 dB(A)**

Where "T" is 10 minutes and "Background" means background sound pressure levels measured in accordance with the latest edition of the Environmental Protection Agency *Noise Measurement Manual*.

Table 1 does not purport to set operating hours for the ERA.

N3	Upon request by the **administering authority**, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include: (a) **background** noise level; (b) LA 10,adj,10mins; (c) LA 1, adj, 10mins; (d) LA, max adj, T; (e) the level and frequency of occurrence of impulsive or tonal noise; (f) atmospheric conditions including wind speed and direction; (g) effects due to extraneous factors such as traffic noise; and (h) location, date and time of recording.
Agency interest: Water	
Condition number	**Condition**
W1	Contaminants must not be released to groundwater or at a location where they are likely to release to groundwater.
Agency interest: Waste	
Condition number	**Condition**
WA1	All waste generated in carrying out the **activity** must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.
Agency interest: Air	
Condition number	**Condition**
A1	Odours or airborne contaminants must not cause **environmental nuisance** at a **sensitive place** or **commercial place**.

Definitions

Key terms and/or phrases used in this document are defined in this section and **bolded** throughout this document. Applicants should note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

Activity means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

Administering authority means the Department of Environment and Heritage Protection or its successor or predecessors.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

Background means noise, measured in the absence of the noise under investigation, as $L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90% of the time period of not less than 15 minutes, using Fast response.

BOD5 means the 5 day biochemical oxygen demand determined using standard tests (e.g. those used by **NATA** laboratories). This test is not inhibited for nitrification, otherwise would be referred to as "carbonaceous" BOD.

Boundary means within 1m of the cadastral **boundary** of the approved place.

Commercial place means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

Day means any 24 hour period.

Environmental nuisance as defined under Chapter 1 of the *Environmental Protection Act 1994.*

Environmental value as defined under Chapter 1 of the *Environmental Protection Act 1994.*

LA10,adj,10mins means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minute measurement period, using Fast response.

LA 1, adj, 10mins means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound), exceeded for 1% of any 10 minute measurement period, using Fast response.

LA, max adj, T means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.

Measures has the broadest interpretation and includes plant, equipment, physical objects, bunding, containment systems, monitoring, procedures, actions, directions and competency.

Median means the middle value, where half the data are smaller and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values.

mg/L means milligrams per litre.

NATA means National Association of Testing Authorities.

Noxious means harmful or injurious to health or physical well-being.

Offensive means causing offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive.

Prescribed contaminants means contaminants listed within Schedule 9 of the Environmental Protection Regulation 2008.

Records include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

Release of a contaminant into the environment means to:

- deposit, discharge, emit or disturb the contaminant
- cause or allow the contaminant to be deposited, discharged, emitted or disturbed
- fail to prevent the contaminant from being deposited, discharged emitted or disturbed
- allow the contaminant to escape
- fail to prevent the contaminant from escaping.

Secondary containment system means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, groundwater, or surface waters.

Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

Total Nitrogen (TN) means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen, expressed as mg/L as Nitrogen. This includes both the inorganic and organic fraction of nitrogen.

Total Phosphorus (TP) means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as mg/L of Phosphorus. This includes both the inorganic and organic fraction of phosphorus.

Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.

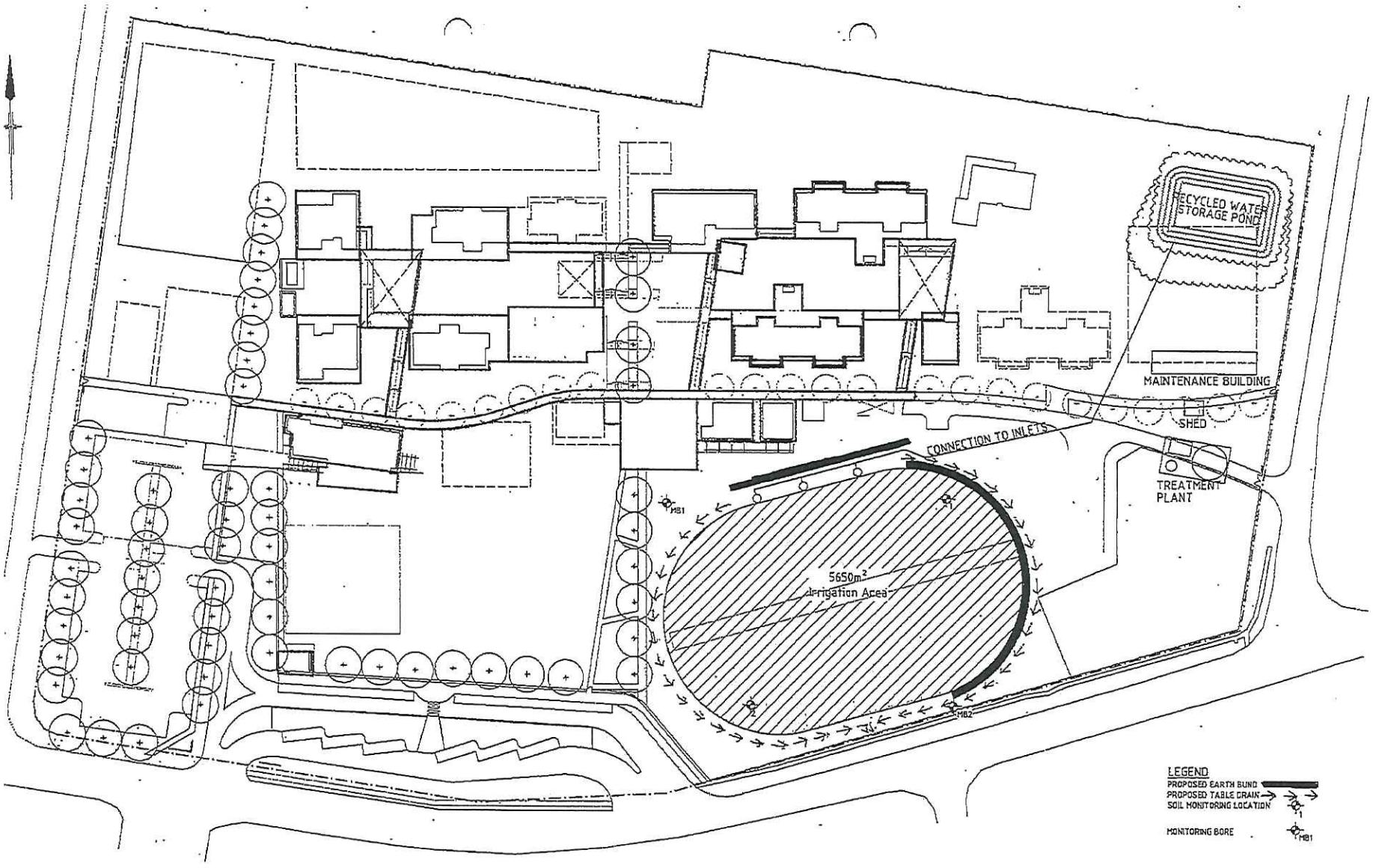
Wet Weather Day means a day which is not a dry weather day.

You means the holder of the environmental authority.

Schedules

Schedule 1— Approved plans

Appendix A Layout of School Infrastructure and Treatment/Disposal System



0 5 10 15 20 25m
SCALE 1:500 AT ORIGINAL SIZE

CLIENTS | PEOPLE | PERFORMANCE

DO NOT SCALE

Drawn	B JOHNSON	Designed	J ANDERSON
Drafting Check	D WILLIS	Design Check	D WILLIS
Approved	D WILLIS		
Date	10-NOV-2007		
Scale	AS SHOWN		

Client: NORTHBUILD CONSTRUCTION PTY LTD
Project: LAYOUT OF SCHOOL INFRASTRUCTURE AND TREATMENT/DISPOSAL SYSTEM
Title: APPENDIX A
Drawing No: A1
Rev: A